

#### Uniform Indoor Air Quality Inspection and Evaluation Program

Reporting Year: 2024

District: Meriden Public Schools

School: Washington Middle School

1225 N Broad St, Meriden, CT 0645

In accordance with section 10-220(d) of the Connecticut General Statutes ("CGS § 10-220(d)" or "IAQ Statute"), Meriden Public Schools completed a uniform Indoor Air Quality (IAQ) inspection and evaluation of "Washington Middle School" in 2024. This report provides a summary of the School's inspections and evaluations undertaken pursuant to the 14 IAQ categories set forth in the IAQ Statute. Where applicable, Meriden Public Schools referred to and relied on the U.S. Environmental Protection Agency's (EPA's) IAQ Tools for Schools (TFS) guidance and checklists in its inspections and evaluations. The TFS checklists completed for the School in 2024 can be found at <a href="https://washington.meriden.k12.ct.us/resources/tools-for-schools/">https://washington.meriden.k12.ct.us/resources/tools-for-schools/</a>.

#### Heating, Ventilation and Air Conditioning (HVAC) Systems

Meriden Public Schools completed this assessment requirement using a combination of the TFS general Walkthrough Inspection Checklist and Ventilation Checklist. These checklists provide guidance for evaluating multiple elements of the School's HVAC systems, including the School's outdoor intakes and potential pollutant sources, system cleanliness and preventative maintenance programs, control components, distribution systems, and exhaust systems.

In accordance with section 10-231e of the Connecticut General Statutes, Meriden Public Schools also ensures that the School's HVAC systems are (1) maintained and operated in accordance with the prevailing maintenance standards at the time of installation or renovation of such systems, and (2) operated continuously during the hours in which students or School personnel occupy School facilities, except (A) during scheduled maintenance and emergency repairs, and (B) during periods for which School officials can demonstrate that the quantity of outdoor air supplied provides sufficient air changes.

In addition, Meriden Public Schools has just completed an upgrade of the heating and controls at Washington Middle School. The new system will allow for better ventilation and temperature control in the building.

This year's assessment did not identify any issues with the HVAC system that required immediate action in connection with IAQ in the School.

#### Radon Levels in Air

Meriden Public Schools has a long-established radon testing program for the School in accordance with CGS § 10-220(d) and the State of Connecticut Department of Public Health (CTDPH) guidance. This program currently requires qualified and trained professionals to evaluate each school building for radon through sampling and laboratory analysis every three years as well as reporting to CTDPH. Meriden Public Schools is conducting a radon evaluation in all school buildings during the 2024-2025 testing season. The District is due for the next periodic evaluation during the 2027-2028 school year.

3. Potential For Exposure to Microbiological Airborne Particles, Including, But Not Limited To, Fungi, Mold, and Bacteria

Meriden Public Schools addressed this assessment requirement using a combination of EPA's TFS general Walkthrough Inspection, Building and Grounds Maintenance, Food Service, and Teacher's Classroom checklists. The focus items include evaluation of drainage at the exterior and roof of the School, any evidence of interior moisture intrusion or moisture issues through roof or plumbing leaks or any consistent condensation or evidence of mold/mildew growth.

The School's IAQ conditions were typical of school buildings and no concerns for microbiological airborne particles were noted in the assessment.

4. Chemical Compounds of Concern to Indoor Air Quality Including, But Not Limited To, Volatile Organic Compounds

Meriden Public Schools addressed this assessment requirement using a combination of EPA's TFS general Walkthrough Inspection and Building and Grounds Maintenance checklists. The focus items include the evaluation of building maintenance supplies and grounds maintenance supplies and how they are used, stored, and labeled as well as spill response, engineering, and administrative controls used in conjunction with these products.

The assessment did not reveal any issues with chemicals of concern impacting the IAQ. Additionally, the School continues to operate its green cleaning program utilizing environmentally preferable cleaning and disinfecting products.

5. Degree Of Pest Infestation, Including, But Not Limited To, Insects and Rodents

Meriden Public Schools addressed this assessment requirement using a combination of EPA's TFS general Walkthrough Inspection, Teacher's Classroom, Waste Management, Food Service, and Integrated Pest Management checklists. The focus items include the evaluation of pest evidence, entry points, food, water, and identification of potential pest habitats as well as establishing a regular monitoring program.

Buildings are visually inspected bi-weekly by Total Pest Control (the District's integrated pest management company) to evaluate reported issues (if applicable), review potential exterior entry points and eliminate conditions that might be conducive to breeding or attracting pests. After the assessment, it was determined that any food stored in classrooms should be contained in plastic containers.

6. Degree Of Pesticide Usage

Meriden Public Schools operates an Integrated Pest Management (IPM) program in accordance with CGS § 10-231a-231d. The IPM program requires Meriden Public Schools to evaluate alternative pest management methods before using pesticides, utilize the least toxic method to address the pest problem and ensure all pest control products are used and stored in accordance with regulatory and manufacturer requirements by trained and qualified personnel. The plan further requires notifications to school occupants and parents of pesticide applications through posted notices and/or letters and that records of IPM practices and a pest management log be maintained for the School.

The application of pesticides on School grounds is avoided unless there is an emergency and it is only used under the direction of a licensed pesticide applicator.

7. "Meriden Public Schools has evaluated the School for the potential presence of "extremely hazardous substances" as listed in EPCRA Section 302 and determined there are currently none present."

#### 8. Ventilation Systems

The assessment of the School's ventilation systems is addressed in Section 1 herein.

9. Plumbing, Including Water Distribution Systems, Drainage Systems and Fixtures

Meriden Public Schools addressed this assessment requirement using a combination of EPA's TFS General Walkthrough Inspection, Building and Grounds Maintenance, Teacher's Classroom and Food Service checklists. The focus items include the evaluation of drainage and plumbing systems for evidence of leaks, odors, staining, condensation, and evidence of mold/mildew growth.

Based on the walkthrough, no plumbing issues affecting IAQ were identified

#### 10. Moisture Incursion

Meriden Public Schools addressed this assessment requirement using a combination of EPA's TFS general Walkthrough Inspection, Building and Grounds Maintenance, Teacher's Classroom and Food Service checklists. The focus items include evaluation of drainage at the exterior and roof of the building, evidence of interior moisture intrusion or moisture issues through roof or plumbing leaks or consistent condensation and evidence of mold/mildew growth.

In Washington Middle School, if school staff see issues of moisture incursion they report them to the head custodian. The head custodian enters a work order ticket. When these issues are identified, the issue is repaired or replaced as applicable and the root cause of the moisture is evaluated and addressed.

#### 11. Overall Cleanliness of The Facilities

Meriden Public Schools addressed this assessment requirement using a combination of EPA's TFS general Walkthrough Inspection, Teacher's Classroom, Waste Management, Food Service and Integrated Pest Management checklists. The focus items include evaluation of sanitary conditions in food handling and storage areas, ensuring waste does not accumulate, verifying walk-off mats are present at each entrance, ensuring proper procedures are in place for dust control during cleaning activities and a schedule is established for vacuuming and mopping floors.

At Washington Middle School, one classroom teacher reported that trash was not picked up daily and six classrooms reported minor dust collection in limited areas, but overall, the School was acceptably clean.

12. Building Structural Elements, Including, But Not Limited To, Roofing, Basements or Slabs

Meriden Public Schools addressed this assessment requirement using a combination of EPA's TFS general Walkthrough Inspection and Building and Grounds Maintenance checklists. The focus items include visual evaluation of roofing materials and structural components of the building.

13. Use Of Space, Particularly Areas That Were Designed to Be Unoccupied

Meriden Public Schools continuously evaluates the use of space at the School. The School staff understand that spaces not designed to be occupied may not have adequate ventilation or meet minimum requirements for heating or cooling.



Washington Middle School's walkthrough did not identify the use of any spaces contrary to their intended use (e.g., the use of a closet as an office).

14. The Provision of Indoor Air Quality Maintenance Training for Building Staff

Meriden Public Schools building staff have been trained, most recently in 2024, in the use of the EPA TFS checklists to gather information related to the overall condition of the school building. Staff understand that findings must be documented and addressed promptly. Additionally, certain staff members have specialized training related to HVAC, plumbing, nursing, groundskeeping, etc., and serve a critical role in addressing identified concerns if/when they arise.



- Read the IAQ
   Backgrounder and the Background Information for this checklist.
- 2. Keep the
  Background
  Information and
  make a copy of
  the checklist for
  future reference.
- 3. Complete the Checklist.
  - Check the "yes,"
     "no," or
     "not applicable"
     box beside each
     item. (A "no"
     response requires
     further attention.)
  - Make comments in the "Notes" section as necessary.
- Return the checklist portion of this document to the IAQ Coordinator.

# **Building and Grounds Maintenance Checklist**

N	ame: David Paul		
So	chool: Washington Middle School		
R	oom or Area: All Date Completed: 2/2/2024	<i>'</i>	
1a.	Developed appropriate procedures and stocked supplies for spill control		N/A
	Reviewed supply labels		
10.	the outdoors		
	Stored chemical products and supplies in sealed, clearly labeled containers		
	Researched and selected the safest products available		
11.	Ensured that supplies are being used according to manufacturers' instructions	ū	
	Ensured that chemicals, chemical-containing wastes, and containers are disposed of according to manufacturers' instructions	_	0
li.	===== (	. –	
1j.	Ventilated affected areas during and after the use of odorous or hazardous chemicals	,	
2.	GROUNDS MAINTENANCE SUPPLIES		
	Stored grounds maintenance supplies in appropriate area(s)		
	Ensured that supplies are used and stored according to manufacturers' instructions		
2c.	Established and followed procedures to minimize exposure to fumes from supplies	П	
2đ.	Reviewed and followed manufacturers' guidelines for maintenance		_
2e.	Replaced portable gas cans with low-emission cans		
2f.			
2g.	Ensured that chemicals, chemical-containing wastes, and containers are disposed of according to manufacturers' instructions	, 	
3.	DUST CONTROL		
3a.	Installed and maintained barrier mats for entrances		

3b. Used high efficiency vacuum bags .....

3c. Used proper dusting techniques .....

3d. Wrapped feather dusters with a dust cloth ......

3e. Cleaned air return grilles and air supply vents ......

4.	FLOOR CLEANING	Yes	Nο	N/A		111_
4b.	Established and followed schedule for vacuuming and mopping floors  Cleaned spills on floors promptly (as necessary)	g	0	0 0		
<b>5</b> .	DRAIN TRAPS					
5b.	Poured water down floor drains once per week (about 1 quart of water)	🛂 🕺		0	6	
6.	MOISTURE, LEAKS, AND SPILLS		_			
6a.	Checked for moldy odors	🔽	۵			
	Inspected ceiling tiles, floors, and walls for leaks or discoloration (may indicate periodic leaks)	🗹				
6с.	Checked areas where moisture is commonly generated (e.g., kitchens, locker rooms, and bathrooms)			_		
6d.	Checked that windows, windowsills, and window frames are free of condensate					
6e.	Checked that indoor surfaces of exterior walls and cold water pipes are free of condensate		•			
6f.	Ensured the following areas are free from signs of leaks and water damage	<del></del>	_	_		
	Indoor areas near known roof or wall leaks		_0			
	Walls around leaky or broken windows		_			
	Floors and ceilings under plumbing					
	Duct interiors near humidifiers, cooling coils, and outdoor air intakes	12				
7.	COMBUSTION APPLIANCES		_			
7a.	Checked for odors from combustion appliances	9				
	Checked appliances for backdrafting (using chemical smoke)		×			
7c.	Inspected exhaust components for leaks, disconnections, or deterioration		Ò			
7d.	Inspected flue components for corrosion and soot	🔽				
8.	PEST CONTROL		,			
8a.	Completed the Integrated Pest Management Checklist	😉				
NC	Combustion appliances are u	<i>jen</i>	te	d	through	the

kitchen exhaust hoods/Pans

2 of 2



### **Food Service Checklist**

COOKING AREA

Name: Megan Jalbert	_
School: Washington Middle School	_
Room or Area: <u>Catel Kitchen</u> Date Completed: <u>3128124</u>	
Signature: May Gallet	_

#### **Instructions**

- 1. Read the IAQ
  Backgrounder and
  the Background
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  this checklist.
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     box beside each
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la.	Determined that local exhaust fans operate properly (note if fans are excessively noisy) ICHNONOL TAUNG DYTO NO YEV	Yes I
_	excessively noisy) lethonal faing oven - no ver	
(1b)	Checked for odors near cooking, preparation, and eating areas	র্ব
1c.	Ensured that exhaust fans are used whenever cooking, washing dishes,	

and cleaning

1d. Determined that gas appliances function properly

1e. Verified that gas appliances are vented outdoors front front out to the first out of th

1h. Checked for signs of microbiological growth in the kitchen, including the upper walls and ceiling (for example, mold, slime, and algae)......

1i. Selected biocides registered by EPA (if required), followed the manufacturer's directions for use, and carefully reviewed the method of application .....

1j. Verified the kitchen is free of plumbing and ceiling leaks (signs include stains, discoloration, and damp areas).....

#### 2. FOOD HANDLING AND STORAGE

2a.	Che	cked food	prepara	ion, coo	king, and	i storage	areas	for sign	s of	insects
	and	vermin (f	or exam <mark>j</mark>	ole, feces	s or rema	ins)	********	,		
01	a.	11.0	. ,			2.4			4	4 2 4

2b. Stored leftovers in well-sealed containers with no traces of food on outside surfaces.

2c. Ensured that food preparation, cooking, and storage practices are sanitary ..  $\square$ 2d. Disposed of food scraps properly and removed crumbs .......

2e. Cleaned counters with soap and water or a disinfectant (according to school policy).....

2f. Swept and wet mopped floors.....

#### 3. WASTE MANAGEMENT

3a.	Selected and placed waste in appropriate containers	/
	Ensured that containers' lids are securely closed	

3e. Ensured that dumpsters are properly located (away from air intake vents, operable windows, and food service doors in relation to prevailing winds)

4.	DELIVERIES	Yes/	No	N/A
4a.	Instructed vendors to avoid idling their engines during deliveries  Posted a sign prohibiting vehicles from idling their engines in	🗹		
	receiving areas	🗹		
4c.	Ensured that doors or air barriers are closed between receiving area and kitchen DALK NAILWOY	<b>a</b>	0	Q
	vendors dont idle			



#### **NOTES**

- -letthand exnaust fan broken
- front right bottom rawner difficult to light
- no lids
- grease trap + drains smell



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- 3. Complete the Checklist.
  - Check the "yes," "no," or "not applicable" box beside each item. (A "no" response requires further attention.)
  - Make comments in the "Notes" section as necessary.
- 4. Return the checklist portion of this document to the IAQ Coordinator.

# Integrated Pest Management Checklist

-		
Na	me: David Paul	
Sci	hool: Washington Middle School	
, a	noon or Area: All Date Completed: 2/21/2024	
Sig	gnature: Down Parl	
_		
1	OFFICIAL POLICY STATEMENT	
	les ive	N//
la.	Developed or located the school's official policy statement for integrated pest management (IPM)	
	pest management (if ivi)	
2.	DESIGNATING PEST MANAGEMENT ROLES	
∠a. 2h	Assigned and trained a qualified person to be the pest manager	_
2c.	Educated students and staff (the occupants of the building) about IPM	
	and asked them to keep their areas clean and free of clutter	
2d.	Encouraged parents to learn about IPM practices and implement them	
•	at home	
	Included language about IPM into contracts with pest management	
21.	professionals	
3.	SETTING PEST MANAGEMENT OBJECTIVES	
3a.	Set appropriate pest management objectives for school buildings (such as	
	preventing pests from interfering with students' learning environment	
01	and preserving the integrity of the building structure)	
3b.	Set appropriate pest management objectives for school grounds (such as providing safe playing areas and the best athletic surfaces possible)	
	providing surv playing arous and the over all and the same in	
4.	INSPECTING, IDENTIFYING, AND MONITORING	
4a.	Inspected all buildings and grounds for pest evidence, entry points,	
	food, water, and harborage sites	
4b.	Identified potential pest habitats in buildings and grounds	
4c.	Pinpointed the source of any current pest problems	
4d.	Monitored to determine the extent of pest problems and to estimate pest populations	1 0
4e	Developed plans to modify habitat (for example, exclusion, repair, and	
.0.	sanitation efforts) to prevent or resolve any pest problems	i C
4f.		_

estimate pest population levels and identify evidence of pests and

potential habitat ......

5.	SETTING ACTION THRESHOLDS			
5a.	Evaluated all available data obtained through inspecting, identifying, and monitoring	_		N/A
	Determined how many pests the school buildings, grounds, and occupants can tolerate	🗹	, / 🗆	0
5c.	Set action thresholds	<b>. Y</b>		
6.	PREVENTIVE STRATEGIES			
INI	OOOR SITES			
6a.		llowir	ng ard	eas:
	• Entryways			
	Classrooms			
	Gymnasiums	18		
	• Locker rooms	<b>U</b> /		
	• Offices	<b>'</b>		
	Staff lounges	🗷		0
	Bathrooms	<b>प</b>	<b>/</b> U	
	Food preparation and serving areas	ॼ		
	Rooms with extensive plumbing			
	Maintenance areas	er		
	• Other	🗷		
οt	TDOOR SITES	Marri		2051
6b.	Implemented appropriate strategies to prevent pests from inhabiting the fo	DA .		
	• Playgrounds	- A	<b>-</b>	ū
	Parking lots      Lawns and athletic fields	D	\ <u></u>	_
	Lawns and athletic fields     Teaching gardens or greenhouses	· P	( <u> </u>	
	Loading docks	0	/ <u>-</u>	
	• Dumpsters	8	0	
	Areas with ornamental shrubs and trees	· •	· 🗖	
	Other	g	<u> </u>	
7.	PESTICIDE USE AND STORAGE			
7a.	Explored alternative pest management methods before concluding that	<b>67</b> 2	/_	
	pesticides were necessary	.,,, ца		_
	Ensured that pest management professionals integrate IPM into their pest management methods	🗗	<b>-</b>	ū
7c.	Identified the least toxic, target-specific chemical (or pesticide formulation) that is the most effective to address the pest problem,	4		П
	preferably as baitsand granules			_
1	Reviewed and followed all label instructions on pesticides and learned how to properly apply and handle these chemicals	🔽	<b>'</b> a	
7e.	Used spot-treatment (or bait, crack, and crevice applications) to apply pesticides whenever possible and only treated the obviously infested plants in the area	<b>🛒</b>		
7.	to the state of th			ā
7f.	Osed protective crothing of equipment when applying posteriors.  Placed all pesticides in tamper-resistant bait boxes or locations that are			
/g	inaccessible to children and non-target species	<b>e</b>		





7.	PESTICIDE USE AND STORAGE (cont.)			
7h.	Locked or fastened lids of all bait boxes and placed bait away from the runway of the box		No	N/A
7i.	Applied pesticides when occupants were not present or in areas where they would not be exposed to the chemicals	_		
7j.	Ensured that school occupants (students and staff) are notified of upcoming pesticide applications through posted notices and/or letters			
7k.	Ensured that parents are notified of upcoming pesticide applications through letters	<b>'</b>		
71.	easily accessible	/		
		1	Q	
7n.	Ensured that storage areas are adequately ventilated and are located away from areas prone to flooding or where spills or leaks may contaminate the environment			
7o.	Ensured that flammable liquids are stored away from ignition sources	1		
7p.	Ensured that pesticides are stored in their original containers and all lids are securely fastened	/	۵	
7q.	Ensured that air in the storage space cannot mix with the air in the central ventilation system		, 	
8.	EVALUATING RESULTS AND RECORD KEEPING			
8a.	Ensured that accurate, up-to-date records of IPM practices and a pest management log for each property are kept		<b>,</b>	
8b.	Ensured that pesticide records necessary to meet all state, local, and school board requirements are maintained	/	۵	
8c.	Ensured that each log book contains the following items:	,		
	• Copy of the pest management plan			
	• Service schedules for maintenance of buildings and grounds	۲,		
	• Current EPA-registered labels			
	• Current Material Safety Data Sheets (MSDS) for each pesticide project	1		

Pest surveillance data sheets
Diagram noting the location of pest activity, traps, and bait stations

NOTES

IPM policy is listed under Facilities on Meriden Public Schools website.

Encourage IAQ Team to dishes IPM Program with members of the school. Meriden Public Schools adheres to the IPM Program set forth by CT DEEP

Departments > Facilities >

Curriculum and Instructional Technology Equity and Instruction Adult & Continuing Education Bilingual and ESOL Department Business Office Arts

Integrated Post Management COVID-19 Resources Green Cleaning

Pupil Personnel Programs Research and Evaluation Teaching and Innovation Finance and Operations Family-School Liason Personnel and Talent Development Food and Nutrition Services Transportation

# Integrated Pest Management

program. The law requires that the school system develop a registry of parents and staff that would like notification prior to application of a pesticide on school property. Meriden's integrated Pest Management program entalls some of the compliance with State Jaw, the Meriden Public School system actively practices an Integrated Pest Management The Meriden Public School system places your child's safety above all else in operating its school facilities, in following procedures:

- 1. Bulldings are visually inspected on a regular basis to determine if any infestation exists and to eliminate any condition that might be conductive to breeding or attracting of pests.
- 2. Corrective actions are taken immediately when there is a potential concern.
- 3. Non-toxic solutions are utilized as a first course of action to abate any pest problem.
- 4. When toxic measures (pesticides) must be used, the least toxic available product is utilized.
  - 5. Chemical treatment is only performed by State licensed applicators.
    - 6. Treatments, when necessary, are done during non-school hours.

Parents wishing to be placed on the school notification registry should Indicate so by registering in their child's school office,



- 1. Read the IAQ
  Backgrounder and
  the Background
  Information for
  this checklist.
- 2. Keep the
  Background
  Information and
  make a copy of
  this checklist for
  each ventilation
  unit in your school,
  as well as a
  copy for future
  reference.
- 3. Complete the Checklist.
  - Check the "yes,"
     "no," or
     "not applicable"
     box beside each
     item. (A "no"
     response
     requires further
     attention.)
  - Make comments in the "Notes" section as necessary.
- 4. Return the checklist portion of this document to the IAQ Coordinator.

## **Ventilation Checklist**

N	Name: David Paul		
S	chool: Washington Middle School		
	Unit Ventilator/AHU No: 1-13		
R	Loom or Area: All Date Completed: 2/2/107	4	
	ignature: Daw J. Parl	_	:
_			
1.	OUTDOOR AIR INTAKES		
	example, a fire escape floor plan)	No □	N/A
1b	Ensured that the ventilation system was on and operating in "occupied" mode		
A	CTIVITY 1: OBSTRUCTIONS		
le.	Ensured that outdoor air intakes are clear of obstructions, debris, clogs, or covers		
1 d.	Installed corrective devices as necessary (e.g., if snowdrifts or leaves frequently block an intake)	_	_
A.C	TRUTY 1. DOLL LITANT COMPORE		
	CTIVITY 2: POLLUTANT SOURCES  Checked ground-level intakes for pollutant sources (dumpsters, loading		
10.	docks, and bus-idling areas)		
lf.	Checked rooftop intakes for pollutant sources (plumbing vents; kitchen,		
	toilet, or laboratory exhaust fans; puddles; and mist from air-conditioning cooling towers)	_	
lg.	Resolved any problems with pollutant sources located near outdoor oir	u	u
	intakes (e.g., relocated dumpster or extended exhaust pipe)		
AC	TIVITY 3: AIRFLOW		
1h.	Obtained chemical smoke (or a small piece of tissue paper or light plastic).		Q
li.	Confirmed that outdoor air is entering the intake appropriately		
2.	SYSTEM CLEANLINESS		
AC	TIVITY 4: AIR FILTERS		
	Replaced filters per maintenance schedule		
26.	Shut off ventilation system fans while replacing filters (prevents dirt from blowing downstream)	О	
2c.	Vacuumed filter areas before installing new filters	<u> </u>	
2d.	Confirmed proper fit of filters to prevent air from bypassing (flowing	_	_
2e.	around) the air filter		

#### 2. SYSTEM CLEANLINESS (continued) **ACTIVITY 5: DRAIN PANS** Yes No N/A 2f. Ensured that drain pans slant toward the drain (to prevent water from 2g. Cleaned drain pans ..... **ACTIVITY 6: COILS** 2i. Ensured that heating and cooling coils are clean ...... **ACTIVITY 7: AIR-HANDLING UNITS, UNIT VENTILATORS** 2j. Ensured that the interior of air-handling unit(s) or unit ventilator (air-mixing chamber and fan blades) is clean ...... 2k. Ensured that ducts are clean ...... ACTIVITY 8: MECHANICAL ROOMS 21. Checked mechanical room for unsanitary conditions, leaks, and spills ........ 2m. Ensured that mechanical rooms and air-mixing chambers are free of trash, chemical products, and supplies 3. CONTROLS FOR OUTDOOR AIR SUPPLY 3a. Ensured that air dampers are at least partially open (minimum position) ...... 3b. Ensured that minimum position provides adequate outdoor air for occupants....... **ACTIVITY 9: CONTROLS INFORMATION** 3c. Obtained and reviewed all design inside/outside temperature and humidity requirements, controls specifications, as-built mechanical drawings, and controls operations manuals (often uniquely designed)...... **ACTIVITY 10: CLOCKS, TIMERS, SWITCHES** 3d. Turned summer-winter switches to the correct position ...... 3e. Set time clocks appropriately..... 3f. Ensured that settings fit the actual schedule of building use (including night/weekend use) **ACTIVITY 11: CONTROL COMPONENTS** 3g. Ensured appropriate system pressure by testing line pressure at both the occupied (day) setting and the unoccupied (night) setting 3h. Checked that the line dryer prevents moisture buildup 3i. Replaced control system filters at the compressor inlet based on the compressor manufacturer's recommendation (for example, when you blow down the tank) 3j. Set the line pressure at each thermostat and damper actuator at the proper level (no leakage or obstructions) **ACTIVITY 12: OUTDOOR AIR DAMPERS** 3k. Ensured that the outdoor air damper is visible for inspection.....

NOTE: It is necessary to ensure that the damper is operating properly and within the normal range to continue.

outdoor air damper is within the normal operating range

31. Ensured that the recirculating relief and/or exhaust dampers are visible

3m. Ensured that air temperature in the indoor area(s) served by each



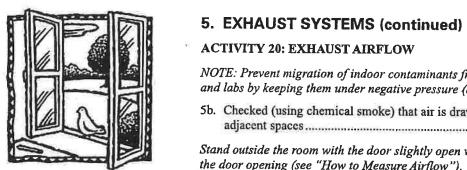


3.	CONTROLS FOR OUTDOOR AIR SUPPLY (continued)			
3n.	Checked that the outdoor air damper fully closes within a few minutes of shutting off appropriate air handler		No	N/A
3o.	Checked that the outdoor air damper opens (at least partially with no delay) when the air handler is turned on	_	_	_
3р.	If in heating mode, checked that the outdoor air damper goes to its minimum position (without completely closing) when the room thermostat is set to 85°F	- <b>√</b>	_ 	_ _
3q.	If in cooling mode, checked that the outdoor air damper goes to its minimum position (without completely closing) when the room thermostat is set to 60°F and mixed air thermostat is set to 45°F		<u> </u>	
3r.	If the outdoor air damper does not move, confirmed the following items:  • The damper actuator links to the damper shaft, and any linkage set screws or bolts are tight			
	Moving parts are free of impediments (e.g., rust, corrosion)			_
	Electrical wire or pneumatic tubing connects to the damper actuator		ā	ū
	The outside air thermostat(s) is functioning properly (e.g., in the right location, calibrated correctly)			8
Pro	ceed to Activities 13–16 if the damper seems to be operating properly.			
AC	TIVITY 13: FREEZE STATS			
3s.	Disconnected power to controls (for automatic reset only) to test continuity across terminals	ם	v/	
OR				
3t.	Confirmed (if applicable) that depressing the manual reset button (usually red) trips the freeze stat (clicking sound indicates freeze stat was tripped)			
3u.	Assessed the feasibility of replacing all manual reset freeze-stats with automatic reset freeze-stats		_	_
clos	TE: HVAC systems with water coils need protection from the cold. The freeze-se the outdoor air damper and disconnect the supply air when tripped. The typ ge is 35°F to 42°F.	stat		
AC'	TIVITY 14: MIXED AIR THERMOSTATS			
3v.	Ensured that the mixed air stat for heating mode is set no higher than 65°F	<b>\</b>	a	
3w.	Ensured that the mixed air stat for cooling mode is set no lower than the room thermostat setting	<u> </u>		
AC'	TIVITY 15; ECONOMIZERS			
	Confirmed proper economizer settings based on design specifications or local practices	<b>v</b> /		
	TE: The dry-bulb is typically set at 65°F or lower.	,		
3y. 3z.	Checked that sensor on the economizer is shielded from direct sunlight Ensured that dampers operate properly (for outside air, return air, exhaust/relief air, and recirculated air), per the design specifications			0
load Dry and	TE: Economizers use varying amounts of cool outdoor air to assist with the co l of the room or rooms. There are two types of economizers, dry-bulb and enth -bulb economizers vary the amount of outdoor air based on outdoor temperate enthalpy economizers vary the amount of outdoor air based on outdoor temperate humidity level.	oolii ialpj ure,	ıg v.	

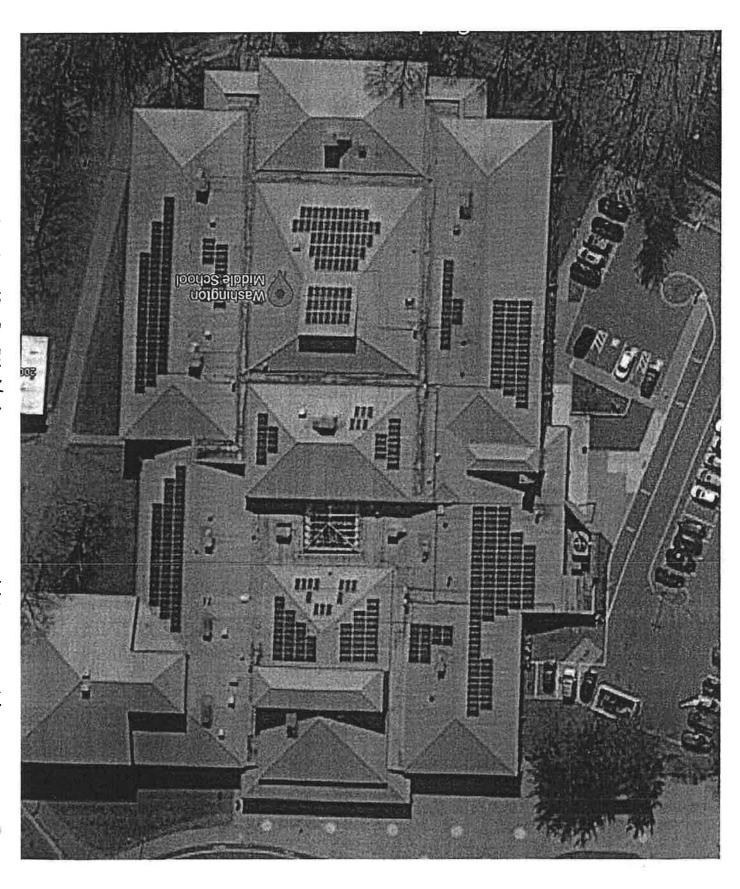
#### 3. CONTROLS FOR OUTDOOR AIR SUPPLY (continued) **ACTIVITY 16: FANS** 3aa. Ensured that all fans (supply fans and associated return or relief fans) that move outside air indoors continuously operate during occupied Yes No N/A hours (even when room thermostat is satisfied)..... NOTE: If fan shuts off when the thermostat is satisfied, adjust control cycle as necessary to ensure sufficient outdoor air supply. 4. AIR DISTRIBUTION **ACTIVITY 17: AIR DISTRIBUTION** 4a. Ensured that supply and return air pathways in the existing ventilation system perform as required ..... 4b. Ensured that passive gravity relief ventilation systems and transfer grilles between rooms and corridors are functioning NOTE: If ventilation system is closed or blocked to meet current fire codes, consult with a professional engineer for remedies. 4c. Made sure every occupied space has supply of outdoor air (mechanical system or operable windows) 4d. Ensured that supply and return vents are open and unblocked ...... NOTE: If outlets have been blocked intentionally to correct drafts or discomfort, investigate and correct the cause of the discomfort and reopen the vents. 4e. Modified the HVAC system to supply outside air to areas without an outdoor air supply....... 4f. Modified existing HVAC systems to incorporate any room or zone layout and population changes ...... Moved all barriers (for example, room dividers, large free-standing blackboards or displays, bookshelves) that could block movement of 4h. Ensured that unit ventilators are quiet enough to accommodate classroom activities ..... 4i. Ensured that classrooms are free of uncomfortable drafts produced by air from supply terminals ..... **ACTIVITY 18: PRESSURIZATION IN BUILDINGS** NOTE: To prevent infiltration of outdoor pollutants, the ventilation system is designed to maintain positive pressurization in the building. Therefore, ensure that the system, including any exhaust fans, is operating on the "occupied" cycle when doing this activity. 4j. Ensured that air flows out of the building (using chemical smoke) through windows, doors, or other cracks and holes in exterior wall (for example, floor joints, pipe openings) 5. EXHAUST SYSTEMS ACTIVITY 19: EXHAUST FAN OPERATION 5a. Checked (using chemical smoke) that air flows into exhaust fan grille(s) ..... If fans are running but air is not flowing toward the exhaust intake, check for the following: Inoperable dampers · Obstructed, leaky, or disconnected ductwork

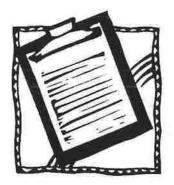
· Undersized or improperly installed fan

· Broken fan belt



	NOTE: Prevent migration of indoor contaminants from areas such as bathrooms, and labs by keeping them under negative pressure (as compared to surrounding s	h as bathrooms, kitchens, to surrounding spaces).					
	5b. Checked (using chemical smoke) that air is drawn into the room from adjacent spaces			N/A			
	Stand outside the room with the door slightly open while checking airflow high an the door opening (see "How to Measure Airflow").						
	5c. Ensured that air is flowing toward the exhaust intake						
	ACTIVITY 21: EXHAUST DUCTWORK  5d. Checked that the exhaust ductwork downstream of the exhaust fan (which is under positive pressure) is sealed and in good condition	1	۵	0			
	6. QUANTITY OF OUTDOOR AIR						
	ACTIVITY 22: OUTDOOR AIR MEASUREMENTS AND CALCULATION	S					
	NOTE: Refer to "How to Measure Airflow" for techniques.						
	6a. Measured the quantity of outdoor air supplied (22a) to each ventilation unit	n .		П			
	6b. Calculated the number of occupants served (22b) by the ventilation unit under consideration						
	6c. Divided outdoor air supply (22a) by the number of occupants (22b) to determine the existing quantity of outdoor air supply per person (22c)			_			
	ACTIVITY 23: ACCEPTABLE LEVELS OF OUTDOOR AIR QUANTITIES 6d. Compared the existing outdoor air per person (22c) to the recommended levels in Table 1	ם	<b>d</b>	<u> </u>			
NOTES  - AIR FITTERS WHICH IS	REPLACED 3 TIMES A YEAR EXCEPT DONE TWICE.	R	00	F			
- Advivity*10 -	controlled by BMS system.						
- used tresu	e not smoke to insure air f	lo	W				
- The heating	cooling and ventalation operate	אלא.	(1A	hon			
according to	the specifications by the const		~ i	, <b>, , , , ,</b> ,			





# Walkthrough Inspection Checklist

Name: David Paul	
School: Washington Middle School	5
Room or Area: All Date Completed: 2/21/2024	-
Signature: Den JParl	-

Inst	truc	tions
Read	the	140

- 1. Read the IAQ

  Backgrounder and the Background Information for this checklist.
- 2. Keep the
  Background
  Information and
  make a copy of
  the checklist for
  future reference.
- 3. Complete the Checklist.
  - Check the "yes,"
     "no," or
     "not applicable"
     box beside each
     item. (A "no"
     response
     requires further
     attention.)
  - Make comments in the "Notes" section as necessary.
- 4. Return the checklist portion of this document to the IAQ Coordinator.

1	. GROUND LEVEL	Yes	BI.	B1/A
12	. Ensured that ventilation units operate properly	Tes/	MO	
11	Ensured there are no obstructions blocking air intakes		5	0
10	. Checked for nests and droppings near outdoor air intakes		2	-
10	l. Determined that dumpsters are located away from doors, windows, and	021		
	outdoor air intakes	🗹	a	
16	<ul> <li>Checked potential sources of air contaminants near the building (chimneys, stacks, industrial plants, exhaust from nearby buildings)</li> </ul>		. 🗅	
1f	Ensured that vehicles avoid idling near outdoor air intakes	M	П	_
1g	. Minimized pesticide application		<u>-</u>	
1h	. Ensured that there is proper drainage away from the building (including roof downspouts)		_	ם
li.	Ensured that sprinklers spray away from the building and outdoor	,. <b>(2</b> 2	ď	Ų
	air intakes			
lj.	Ensured that walk-off mats are used at exterior entrances and that			
	they are cleaned regularly	.2		
	ROOF  tile on the roof, consider inspecting the HVAC units (use the Ventilation Chec	klist).		
	Ensured that the roof is in good condition			
2Ъ.	Checked for evidence of water ponding	5		0
2c.	Checked that ventilation units operate properly (air flows in)			
2d.	Ensured that exhaust fans operate properly (air flows out)		_	
2e.	Ensured that air intakes remain open, even at minimum setting	. 🚾	0	
2f.	Checked for nests and droppings near outdoor air intakes	. 04		
20	Ensured that air from plumbing stacks and exhaust outlets flows away	. 2		
~6.	from outdoor air intakes	1		ם
		. 2	<b>u</b>	
3.	ATTIC			
3a.	Checked for evidence of roof and plumbing leaks		o.	M
3Ъ.	Checked for birds and animal nests	0	<u> </u>	
4.	GENERAL CONSIDERATIONS			
4a.	Ensured that temperature and humidity are maintained within	,		
<b>4</b> b	acceptable ranges	B		
40.	Ensured that no obstructions exist in supply and exhaust vents	ष्		
4¢.	Checked for odors			
40.	Checked for signs of mold and mildew growth	D		

4e. 4f. 4g.	Checked for signs of water damage	g/	000		
5b.	Ensured that bathrooms and restrooms have operating exhaust fans		0	0 0 0	
6.	MAINTENANCE SUPPLIES				
	Ensured that chemicals are used only with adequate ventilation and when building is unoccupied  Ensured that vents in chemical and trash storage areas are operating	. Q	a	۵	
	properly	. 🖳	۵		
6c. 6d.	Ensured that portable fuel containers are properly closed				
7.	COMBUSTION APPLIANCES				
7b. 7с.	Checked for combustion gas and fuel odors	8		0000	
8.	OTHER				
	Checked for peeling and flaking paint (if the building was built before 1980, this could be a lead hazard)		) ]	0	
NO	Washington Middle School in 1985	ņ	, a	S	constructed
	n 1985				

Radon is tested every five years per CT quidelines.

2 of 2



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  Backgrounder and the Background Information for this checklist.
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     requires further
     attention.)
  - Make comments in the "Notes" section as necessary.
- Return the checklist portion of this document to the IAQ Coordinator.

## **Waste Management Checklist**

Name: Devid Paul
School: Washington Middle School
Room or Area: All Date Completed: 2/21/2024
Signature: Day Pal

1.	WASTE MANAGEMENT	<b>S</b>	Nο	N/A
la.	Ensured that waste containers are appropriate for use (for example, food waste containers should have lids)	/	<u> </u>	
1b.	Ensured that waste containers are lined			
lc.	Ensured that waste from art, science, vocational classes, etc., are handled separately	/	_	۵
1 d.	Labeled recycling bins clearly	_		
	Ensured number of bins and dumpsters is adequate			
1f.	Ensured appropriate location of dumpsters (i.e., away from air intakes, doors, and operable windows in relation to prevailing winds)	•	0	0
1g.	Ensured waste containers are emptied regularly			
lh.	Ensured appropriate waste removal schedule	5		
li.	Ensured waste is stored in a well-ventilated room	,		
lj.	Ensured any exhaust fans in the room are operating properly			
1k,	Checked waste storage areas for odors, contaminants, or signs of vermin I			

MOTES

Waste senoval is contracted to A.J. Waste Systems LLC.